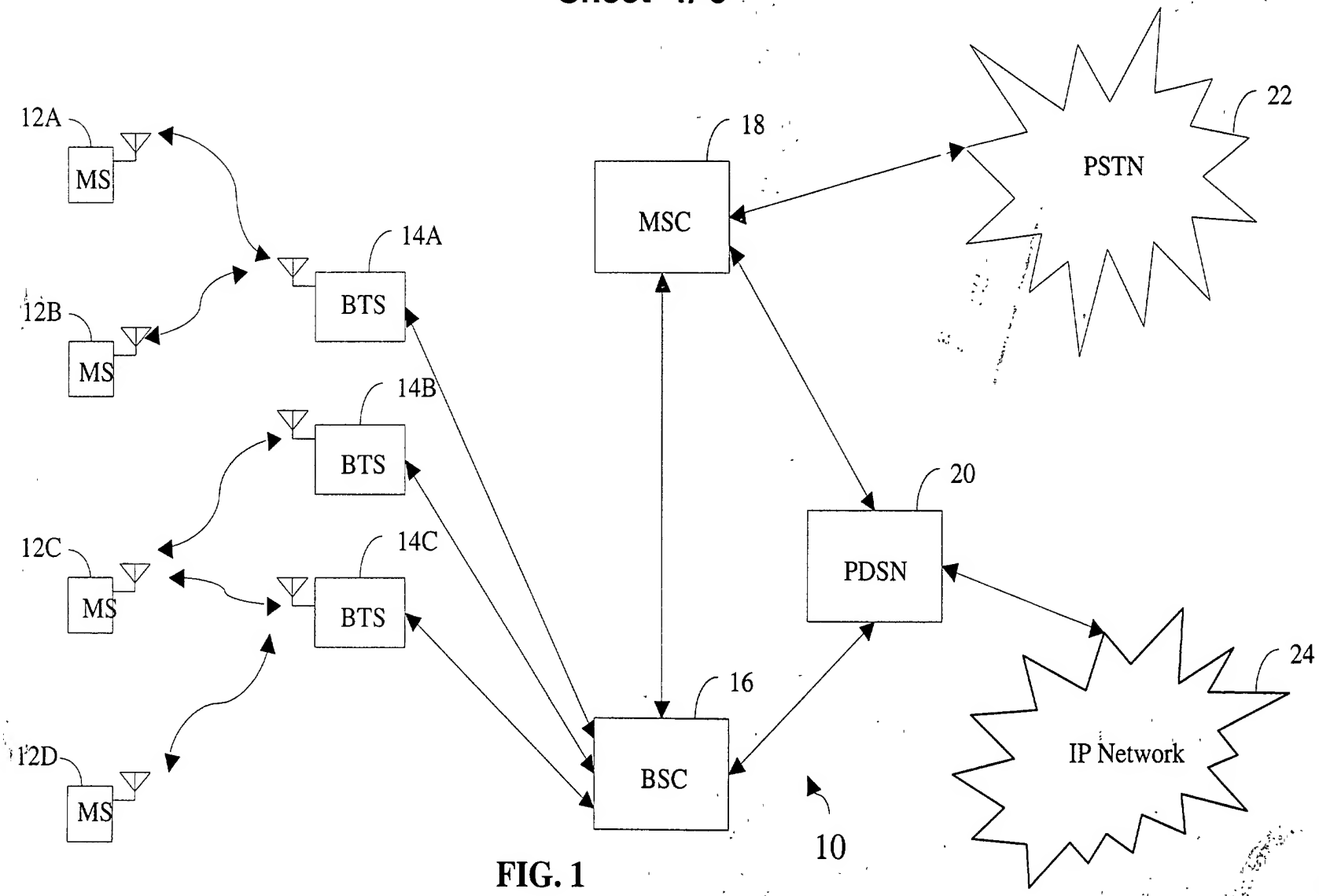

12A
MS
12B
MS
12C
MS
12D
MS
14A
BTS
14B
BTS
14C
BTS
18
MSC
22
PSTN
20
PDSN
24
IP Network
16
BSC
10

FIG. 1

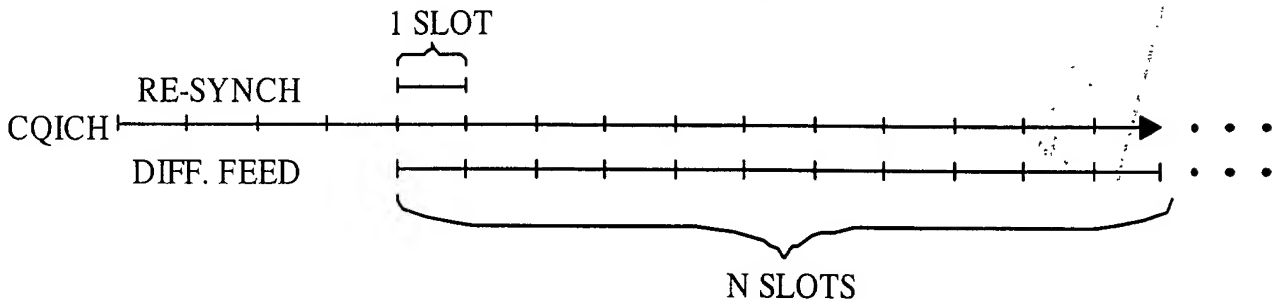


FIG. 2A

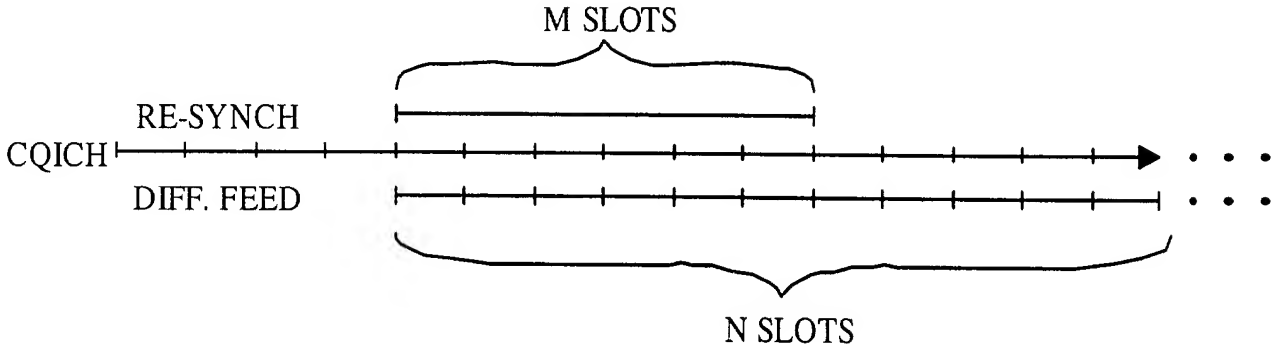


FIG. 2B

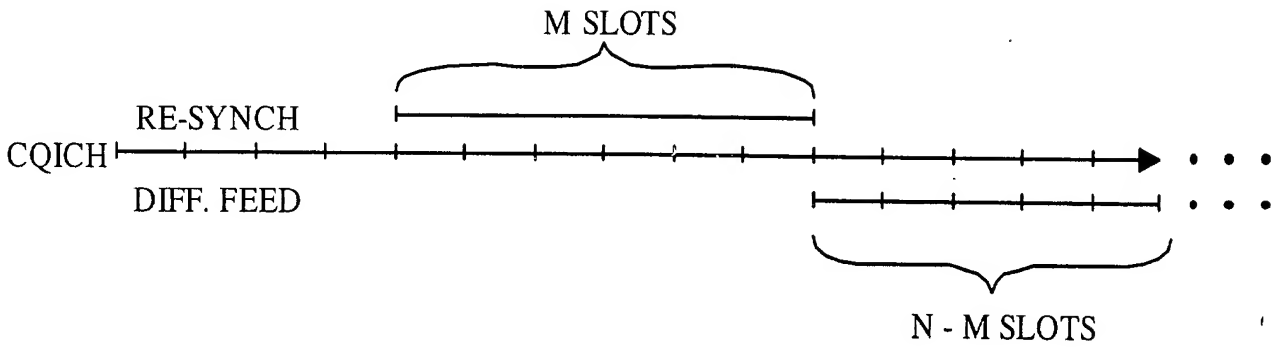


FIG. 2C

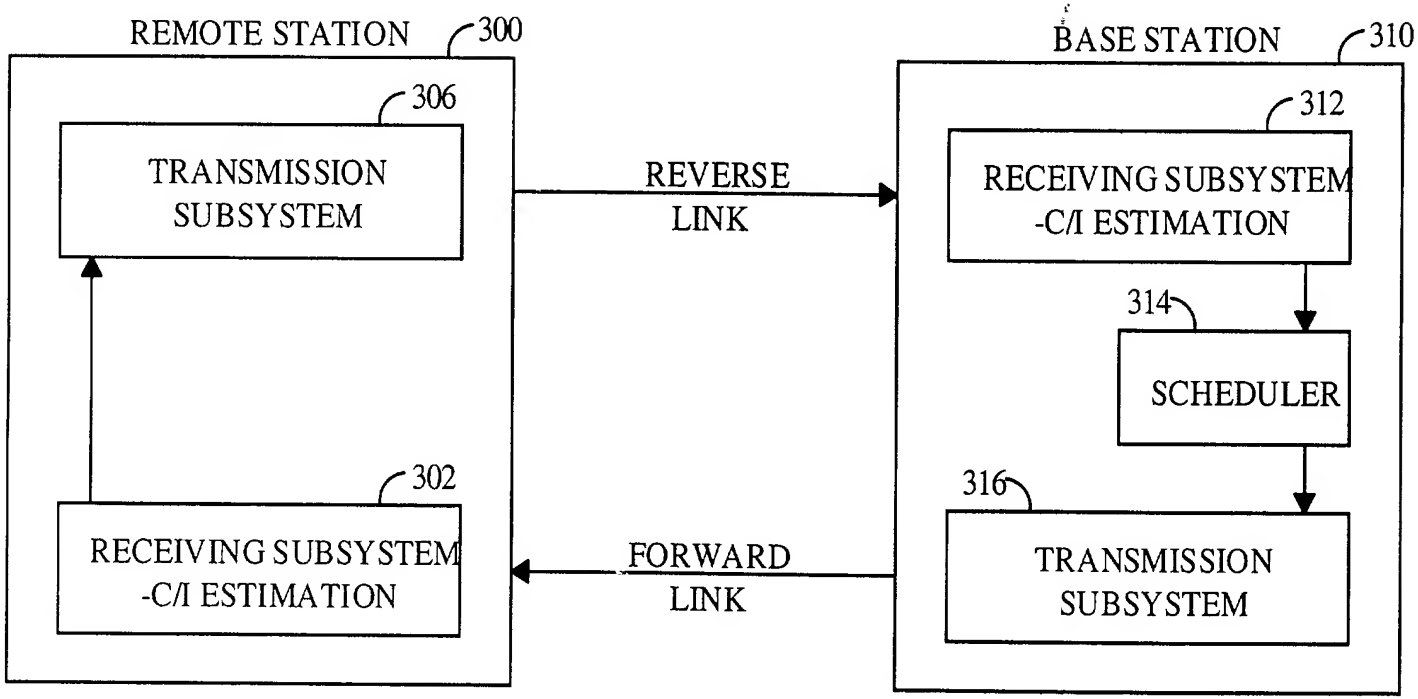

REMOTE STATION
300
306
TRANSMISSION SUBSYSTEM
302
RECEIVING SUBSYSTEM -C/I ESTIMATION
REVERSE LINK
FORWARD LINK
BASE STATION
310
312
RECEIVING SUBSYSTEM -C/I ESTIMATION
314
SCHEDULER
316
TRANSMISSION SUBSYSTEM

FIG. 3

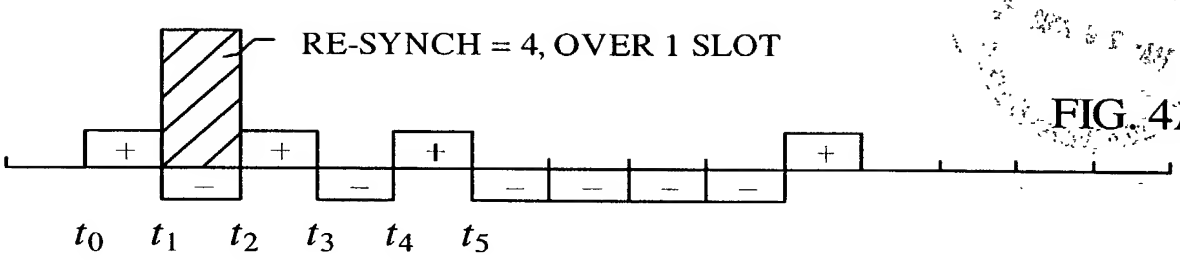


FIG. 4A

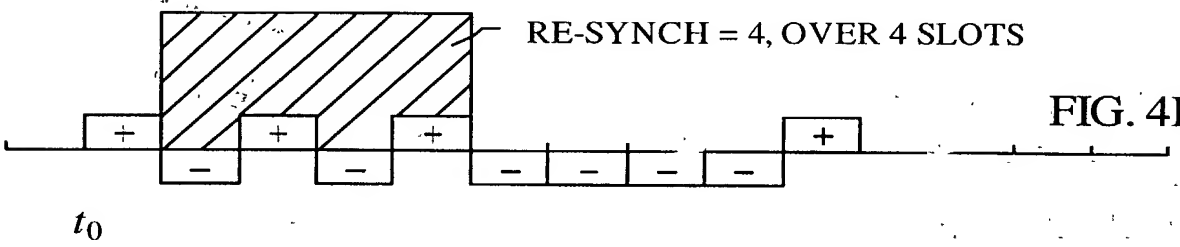


FIG. 4B

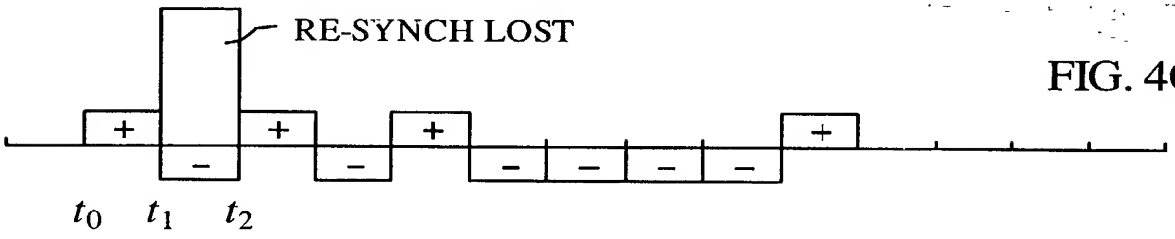


FIG. 4C

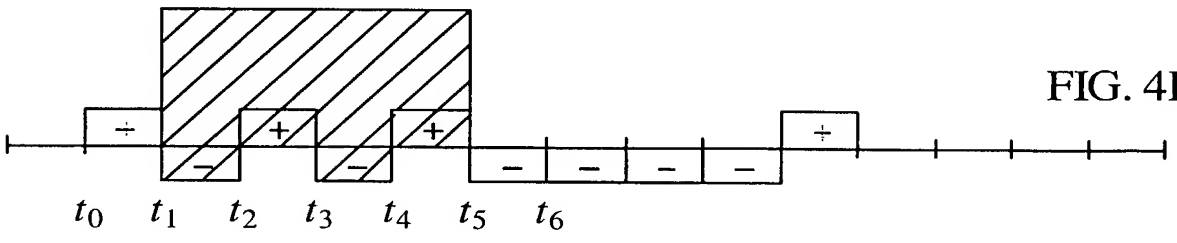


FIG. 4D

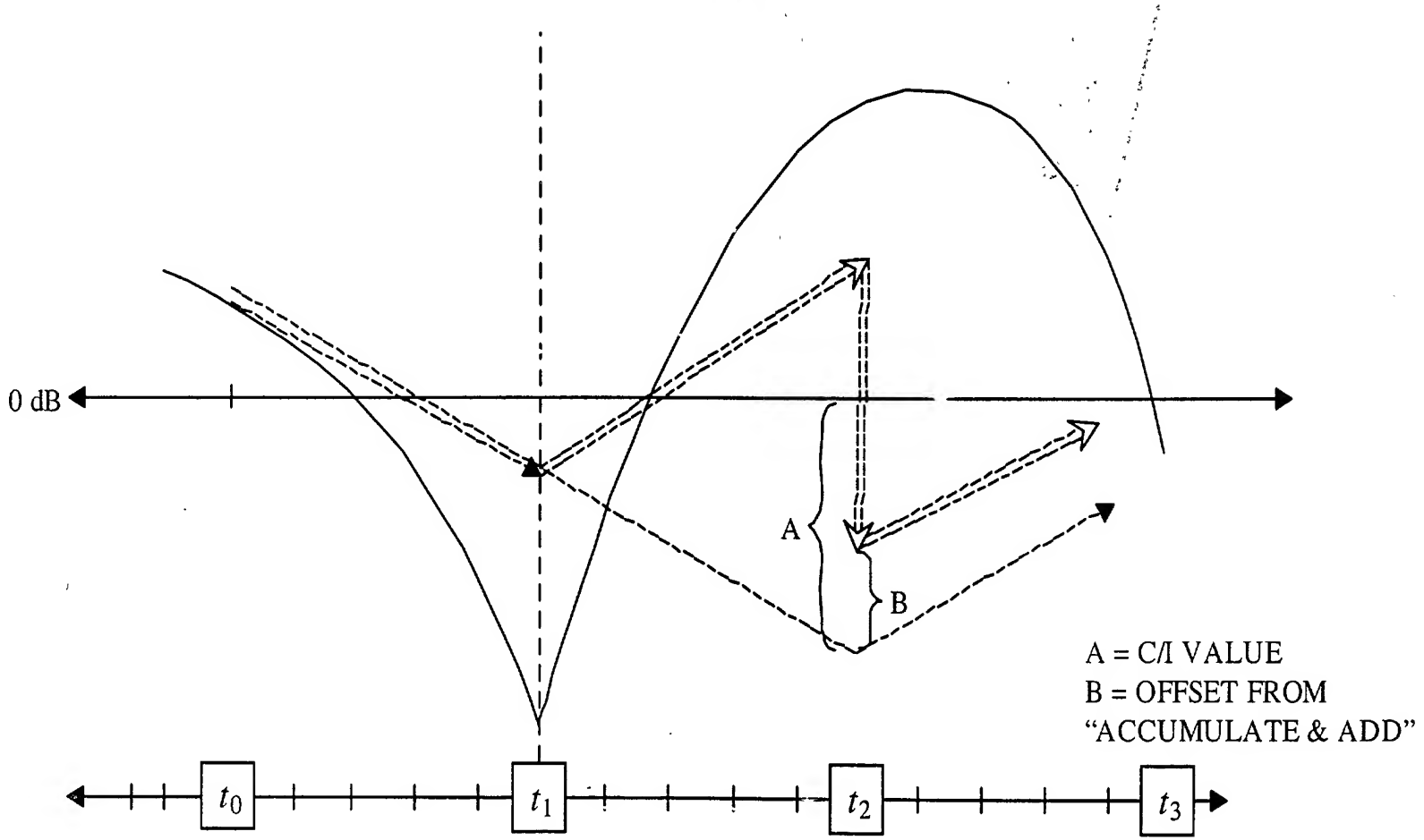
AT t_0, REGISTER CONTENTS = 10dB

+, - → INCREMENTAL BEATS

	4A	4B	4C		4D	
t_0 - t_1	10	10	10		10	
t_1 - t_2	11	11	11		11	
			RE-SYNCH OK	RE-SYNCH LOST	ADD	ACC. + ADD
t_2- t_3	4	11	4	10	10	10
t_3 - t_4	5	11	5	11	11	11
t_4 - t_5	4	11	4	10	10	10
t_5- t_6	5	4	5	11	4	5*
t_6 - t_7	4	3	4	10	3	4

*NOTE THAT 1ST PARALLEL BEAT IS DISCARDED FOR "ACCUMULATE & ADD

FIG. 4E



(NOT TO SCALE)

FIG. 5

EP 0 956 650 B1 2004.08.04

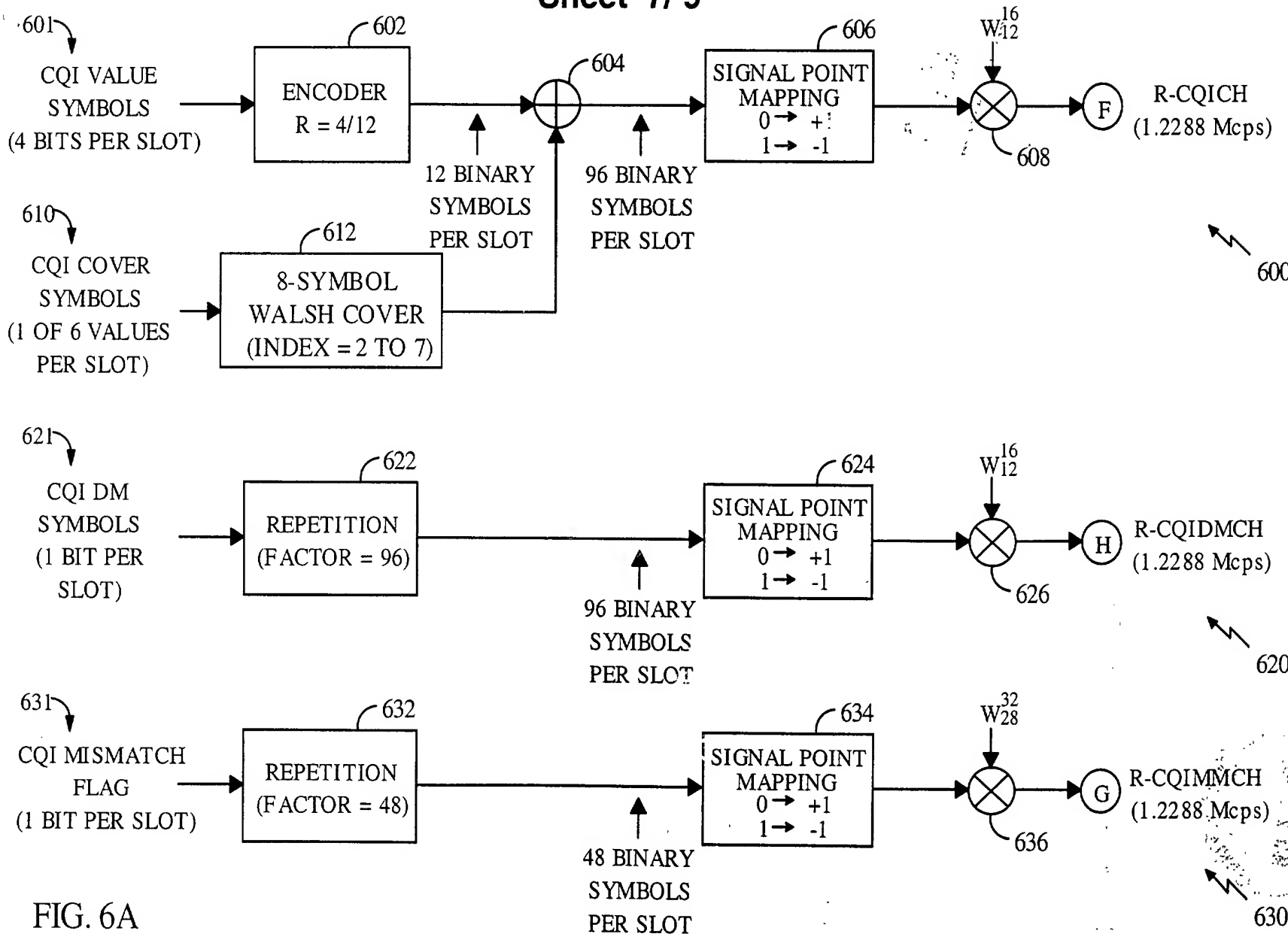

601
CQI VALUE SYMBOLS (4 BITS PER SLOT)
602
ENCODER R = 4/12
12 BINARY SYMBOLS PER SLOT
604
96 BINARY SYMBOLS PER SLOT
606
SIGNAL POINT MAPPING 0→ +1 1→ -1
W_{12}^{16}
608
F
R-CQICH (1.2288 Mcps)
610
CQI COVER SYMBOLS (1 OF 6 VALUES PER SLOT)
612
8-SYMBOL WALSH COVER (INDEX = 2 TO 7)
600
621
CQI DM SYMBOLS (1 BIT PER SLOT)
622
REPETITION (FACTOR = 96)
96 BINARY SYMBOLS PER SLOT
624
SIGNAL POINT MAPPING 0→ +1 1→ -1
W_{12}^{16}
626
H
R-CQIDMCH (1.2288 Mcps)
620
631
CQI MISMATCH FLAG (1 BIT PER SLOT)
632
REPETITION (FACTOR = 48)
48 BINARY SYMBOLS PER SLOT
634
SIGNAL POINT MAPPING 0→ +1 1→ -1
W_{28}^{32}
636
G
R-CQIMMCH (1.2288 Mcps)
630

FIG. 6A

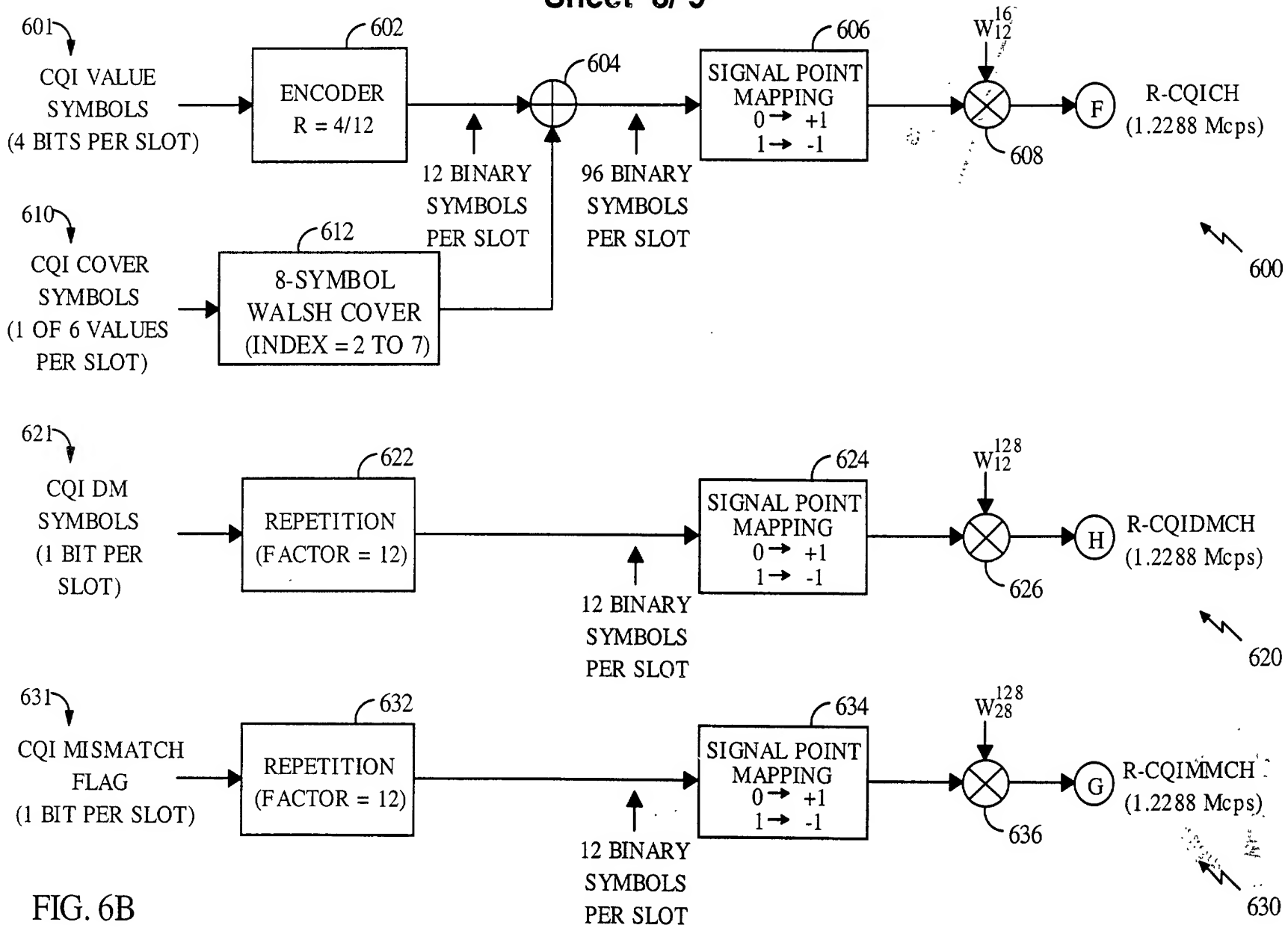

601
CQI VALUE SYMBOLS (4 BITS PER SLOT)
602
ENCODER R = 4/12
12 BINARY SYMBOLS PER SLOT
604
96 BINARY SYMBOLS PER SLOT
606
SIGNAL POINT MAPPING 0 → +1 1 → -1
W_{12}^{16}
608
F
R-CQICH (1.2288 Mcps)
600
610
CQI COVER SYMBOLS (1 OF 6 VALUES PER SLOT)
612
8-SYMBOL WALSH COVER (INDEX = 2 TO 7)
621
CQI DM SYMBOLS (1 BIT PER SLOT)
622
REPETITION (FACTOR = 12)
12 BINARY SYMBOLS PER SLOT
624
SIGNAL POINT MAPPING 0 → +1 1 → -1
W_{12}^{128}
626
H
R-CQIDMCH (1.2288 Mcps)
620
631
CQI MISMATCH FLAG (1 BIT PER SLOT)
632
REPETITION (FACTOR = 12)
12 BINARY SYMBOLS PER SLOT
634
SIGNAL POINT MAPPING 0 → +1 1 → -1
W_{28}^{128}
636
G
R-CQIMMCH (1.2288 Mcps)
630

FIG. 6B

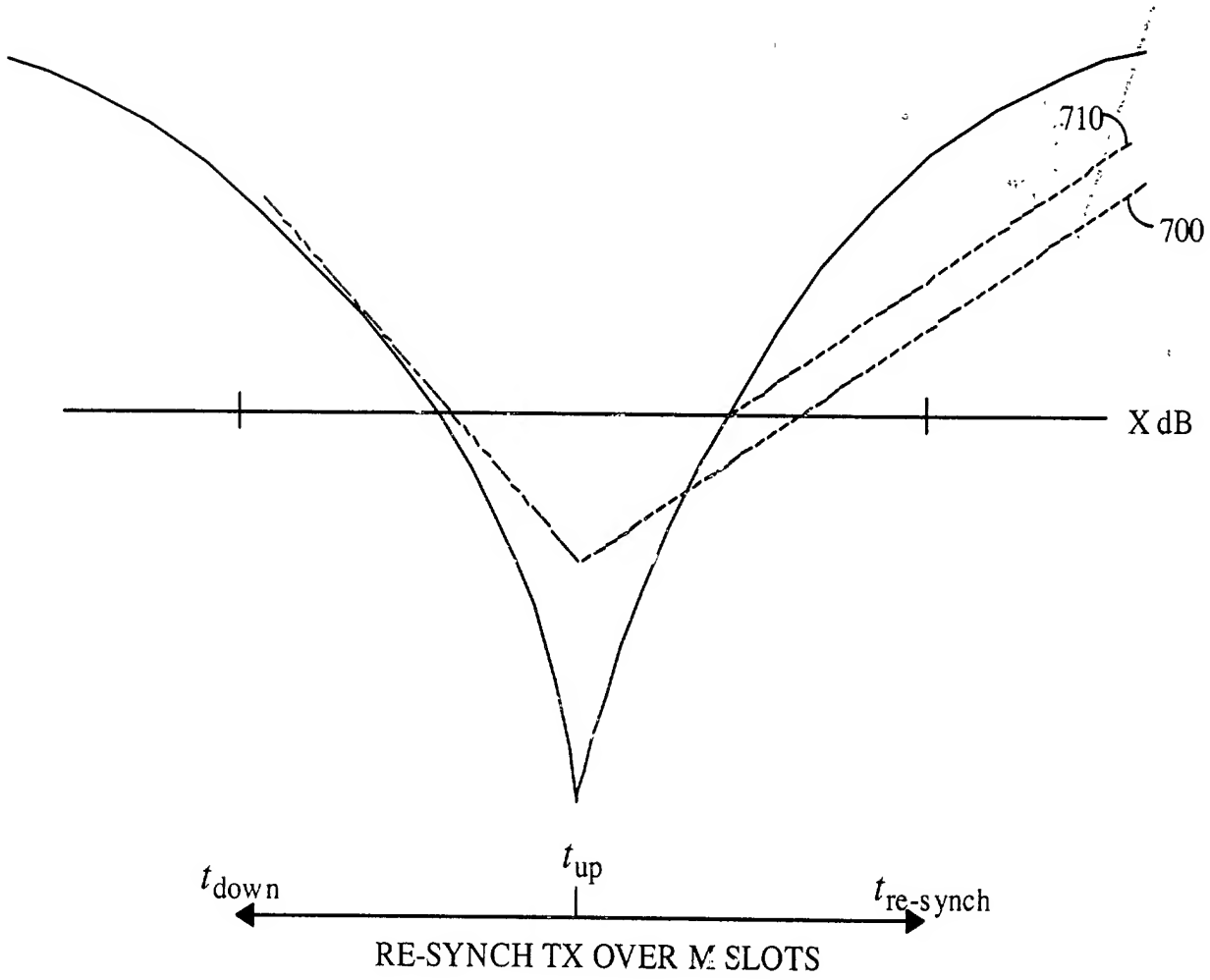


FIG. 7

(NOT TO SCALE)